

WHAT IS CLAIMED

1. A throttle body for an internal combustion engine, comprising:

an airflow sensor for measuring the flow rate of  
5 air passing through a throttle bore,  
a throttle position sensor for measuring the  
opening of a throttle valve in said throttle bore, and  
an engine control unit for controlling the engine,  
wherein an electronic circuit composing said engine  
10 control unit is provided at a base which is any other  
member than the body (hereafter, it is called "bore  
body") of said throttle bore.

2. The throttle body for an internal combustion engine  
of claim 1, wherein said base has terminals which are  
15 electrically connected to at least any of a motor for  
driving said throttle valve, said airflow sensor, and  
said throttle position sensor.

3. The throttle body for an internal combustion engine  
of claim 1, wherein at least one of said airflow  
20 sensor and said throttle position sensor is provided  
at said base.

4. The throttle body for an internal combustion engine  
of claim 1, wherein at least one part of the base area  
which mounts said electronic circuit has at least one  
25 aperture, and said electronic circuit is in contact

with said bore body through said aperture.

5. The throttle body for an internal combustion engine  
of claim 4, wherein the area on which said electronic  
circuit is in contact with said throttle bore body is  
greased.

6. The throttle body for an internal combustion engine  
of claim 4, wherein said throttle body has at least  
one projection which is set in said aperture.

7. A throttle body for an internal combustion engine,  
10 comprising:

an airflow sensor for measuring at least one of  
the flow rate and the velocity of air passing through  
a throttle bore provided in the bore body,

15 a throttle position sensor for measuring the  
opening of a motor-driven throttle valve in said  
throttle bore,

an engine control unit for controlling the engine,  
and a throttle cover for covering said engine  
control unit,

20 wherein an electronic circuit which composes said  
engine control unit is mounted on a base which is any  
other member than said bore body containing said  
throttle bore; said throttle body, the base of said  
electronic base, and said throttle body cover are  
25 located in that order by tightening with screws.

8. The throttle body for an internal combustion engine of claim 7, wherein said base has connectors for connecting said electronic circuit to an external circuit.
- 5     9. The throttle body for an internal combustion engine of claim 8, wherein said connector is guided to outside of said throttle body through a hole formed at said throttle body cover from a space formed by said bore body and said throttle body cover, and connected with an outer electric section.
- 10    10. The throttle body for an internal combustion engine of claim 7, wherein said base has at least two connectors of which has terminals for inputting and outputting engine controlling signals and the other has terminals for inputting and outputting at least one of AT (automatic) shift information and in-car communication.
- 15    11. The throttle body for an internal combustion engine of claim 7, wherein said connector is mounted on said base so that a projection provided at said connector may be fitted to a recess on said base, or a recess provided at said connector may be fitted to a projection on said base.
- 20    12. The throttle body for an internal combustion engine of claim 1, wherein said throttle valve is
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driven by a motor provided on said bore body.

13. A throttle body for an internal combustion engine, comprising:

an airflow sensor for measuring at least one of  
5 the flow rate and the velocity of air passing through  
a throttle bore provided in the bore body,

a throttle position sensor for measuring the  
opening of a motor-driven throttle valve in said  
throttle bore,

10 an engine control unit for controlling the engine,  
and a throttle cover for covering said engine  
control unit,

wherein a part of said airflow sensor contacts  
with said bore body and sealed thereon hermetically in  
15 the axial direction of airflow sensor by pressing said  
airflow sensor against said bore body.